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HRS

	s	s^2
Groundwater Route Score (S_{gw})	3.58	12.82
Surface Water Route Score (S_{sw})	15.94	254.08
Air Route Score (S_a)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$	/////	266.90
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$	/////	16.34
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}\ /\ 1.73\ = S_M =$	/////	9.45

WORKSHEET FOR COMPUTING S_M

PRO

	s	s^2
Groundwater Route Score (S_{gw})	3.77	14.21
Surface Water Route Score (S_{sw})	16.78	281.57
Air Route Score (S_a)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$	/////	295.78
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$	/////	17.20
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}\ /\ 1.73\ = S_M =$	/////	9.94

WORKSHEET FOR COMPUTING S_M

232797

Keegan Landfill
02-8810-75-SI

Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	(0) 45	1	0	45	0

If observed release is given a score of 45, proceed to line **4**.
If observed release is given a score of 0, proceed to line **2**.

2 Route Characteristics					
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	6
Net Precipitation	0 1 (2) 3	1	2	3	2
Permeability of the Unsaturated Zone	0 (1) 2 3	1	1	3	1
Physical State	0 1 2 (3)	1	3	3	3
	Total Route Characteristics Score		12	15	12
3 Containment	0 1 2 (3)	1	3	3	3
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	2
	Total Waste Characteristics Score		19	26	20
5 Targets					
Ground Water Use	0 (1) 2 3	3	3	9	3
Distance to Nearest Well/Population Served	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0
	Total Targets Score		3	49	3
6 If line **1** is 45, multiply **1** x **4** x **5** If line **1** is 0, multiply **2** x **3** x **4** x **5**			2052	57,330	2160
7 Divide line **6** by 57,330 and multiply by 100		$S_{gw}=$	3.58		3.77

○ = HRS
☐ = PRO

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Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	**HRS**	Max. Score	**PRO**
1 Observed Release	0 (45)	1	45	45	45
If observed release is given a value of 45, proceed to line **4**. If observed release is given a value of 0, proceed to line **2**.					
2 Route Characteristics					
Facility Slope and Intervening Terrain	0 1 2 (3)	1	3	3	3
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	2
Distance to Nearest Surface Water	0 1 2 (3)	2	6	6	6
Physical State	0 1 2 (3)	1	3	3	3
Total Route Characteristics Score			14	15	14
3 Containment	0 1 2 (3)	1	3	3	3
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	18
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	2
Total Waste Characteristics Score			19	26	20
5 Targets					
Surface Water Use	0 1 (2) 3	3	6	9	6
Distance to a Sensitive Environment	0 1 2 (3)	2	6	6	6
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0
Total Targets Score			12	55	12
6 If line **1** is 45, multiply **1** x **4** x **5** If line **1** is 0, multiply **2** x **3** x **4** x **5**			10,260	64,350	10,800
7 Divide line **6** by 64,350 and multiply by 100		S_sw =	15.94		16.78